

# **APPARATUS AND METHOD FOR SEQUENCING MEMORY OPERATIONS IN AN ASYNCHRONOUS SWITCH FABRIC**

## **ABSTRACT**

One embodiment of the present invention provides a system that facilitates implementing a memory mechanism within an asynchronous switch fabric. The system includes a memory device, which does not preserve first-in, first-out semantics such as a random access memory or a stack. The system also includes a data destination horn, for routing data from a trunk line to a plurality of destinations. The memory device is one destination of the plurality of destinations. The system further includes a data source funnel, for routing data from a plurality of sources into the trunk line. The memory device is a source of the plurality of sources.